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level set surface deformation model that is free

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Level set surface editing operators - ►caltech.edu [PDF]

K Museth, D Breen - US Patent App. 10/783,201, 2004 - Google Patents

... are deformable implicit surfaces where the deformation of the ... function for describing the surface editing operators ... Third, level set models are free of the edge ...

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Geodesic Active Contours and Level Sets for the Detection and Tracking of Moving Objects - ►ecp.fr

[PDF]

N Paragios, R Deriche - IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE ..., 2000 - doi.ieeeecs.org

... for coping with scaling, translation, rotation, and deformation. ... level set values of the surface is illustrated ... by the local changes of the level set function. ...

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Shape Modeling with Front Propagation: A Level Set Approach

R Malladi, JA Sethian, BC Vemuri - IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE ..., 1995 - doi.ieeeecs.org

... with protrusions have very high deformation energies ... of a flat superquadric using the level set front propagation ... A sphere, which is the level surface $\{ = 0 \}$ of ...

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Free-form deformations with lattices of arbitrary topology - ►unc.edu [PDF]

R MacCracken, KI Joy - Proceedings of the 23rd annual conference on Computer ..., 1996 - portal.acm.org

... utilizing an inventory of lattices and a set of tools ... in this manner.) At the lowest level, the user ... halfedge structure for a mesh representing a surface and a ...

Cited by 283 - Related articles - Web Search - Library Search - All 11 versions

Algorithms for Interactive Editing of Level Set Models - ►drexel.edu [PDF]

K Museth, DE Breen, RT Whitaker, S Mauch, D ... - Computer Graphics Forum, 2005 - Blackwell Synergy

... Level set models implicitly represent a deforming surface as an iso ... To allow for deformations of the level set ... of a point x on a level set surface, the speed ...

Cited by 8 - Related articles - Web Search - BL Direct - All 10 versions

A painting interface for interactive surface deformations

J Lawrence, T Funkhouser - Graphical Models, 2004 - Elsevier

... to lie between 0.0 and 1.0 for any level of detail ... In our current implementation, the user can set the time ... allowing the user to "see" the surface move and ...

Cited by 15 - Related articles - Web Search - All 9 versions

Model-based deformable surface finding for medical images

LH Staib, JS Duncan - Medical Imaging, IEEE Transactions on, 1996 - ieeexplore.ieee.org

... their topology have been developed using level sets [7] and ... surface using three functions of 0 and q_5 ... this optimal form during the deformation process without ...

Cited by 151 - Related articles - Web Search - BL Direct - All 4 versions

A Level-Set Approach for the Metamorphosis of Solid Models - ►uned.es [PDF]

DE Breen, RT Whitaker - IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS, 2001 - doi.ieeeecs.org

... k and, therefore, this analysis applies to every level set of ϕ ... Thus, we are

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► ntnu.no [PDF]

... Surface Equilibrium In contrast to the level-set evolution techniques ... Furthermore, a T-surface is considered to have ... for a specified number of deformation steps ...

... the specific methods needed to construct each model. ... The second two are surface deformation steps, first ... to voxel resolution while the level set model has sub ...